

Sustainable Development Goals

***Joining Efforts to
Save the Planet Water***

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6 CLEAN WATER
AND SANITATION

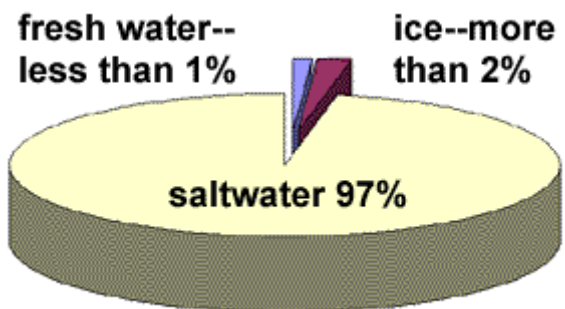
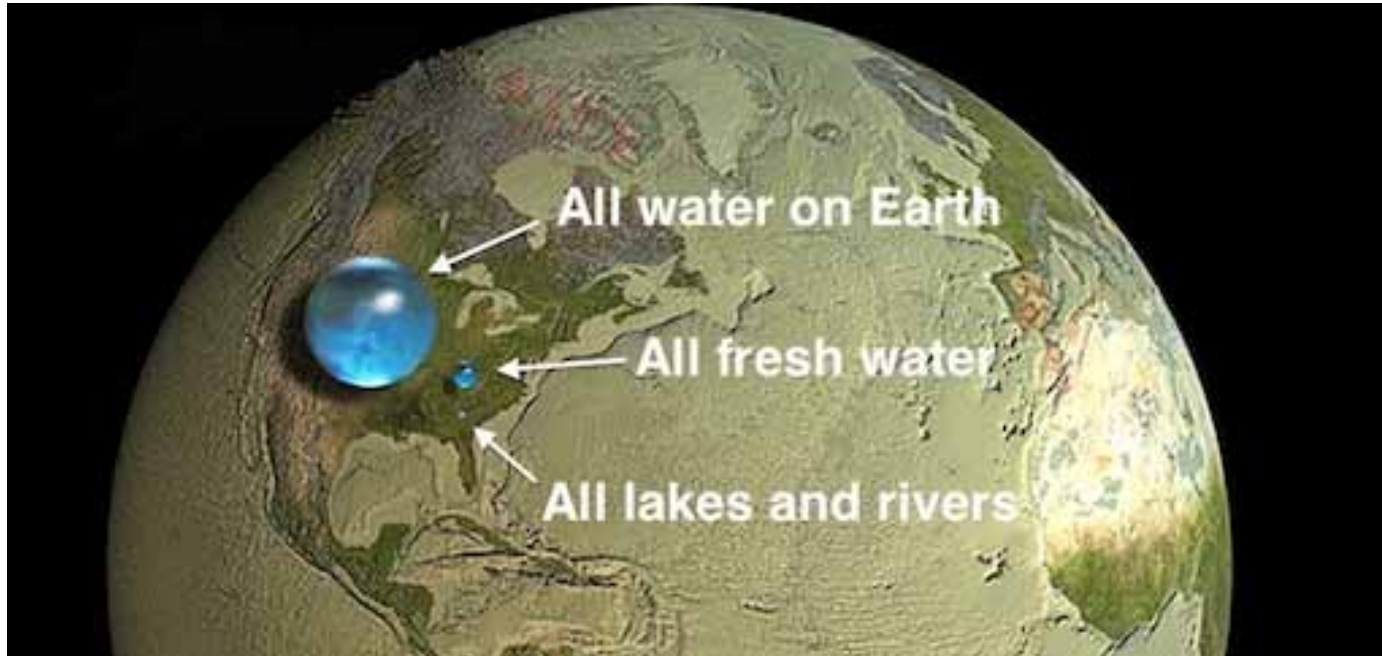


The Earth is full of water!

**About 71 percent of the Earth's
surface is water-covered**

What is the problem?







Ensure availability and sustainable management of water and sanitation for all

<https://sustainabledevelopment.un.org/topics>

TARGETS

- 6.1** By 2030, achieve universal and equitable access to safe and affordable drinking water for all
- 6.2** By 2030, achieve access to adequate and equitable sanitation and hygiene for all and end open defecation, paying special attention to the needs of women and girls and those in vulnerable situations
- 6.3** By 2030, improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally
- 6.4** By 2030, substantially increase water-use efficiency across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity



Ensure availability and sustainable management of water and sanitation for all

<https://sustainabledevelopment.un.org/topics>

TARGETS

6.5 By 2030, implement integrated water resources management at all levels, including through transboundary cooperation as appropriate

6.6 By 2020, protect and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes

6.a By 2030, expand international cooperation and capacity-building support to developing countries in water- and sanitation-related activities and programmes, including water harvesting, desalination, water efficiency, wastewater treatment, recycling and reuse technologies

6.b Support and strengthen the participation of local communities in improving water and sanitation management



IAQ and ASQ decided, in Dallas May 2014, to structure a Task Force to join efforts in global actions in benefit of the welfare of the Planet. The 1st challenge is focused on the WATERCRISES.

Members:

Stephen Hacker (ASQ)

Geoff Vining (ASQ)

Joal Teitelbaum (IAQ)

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Quality Management

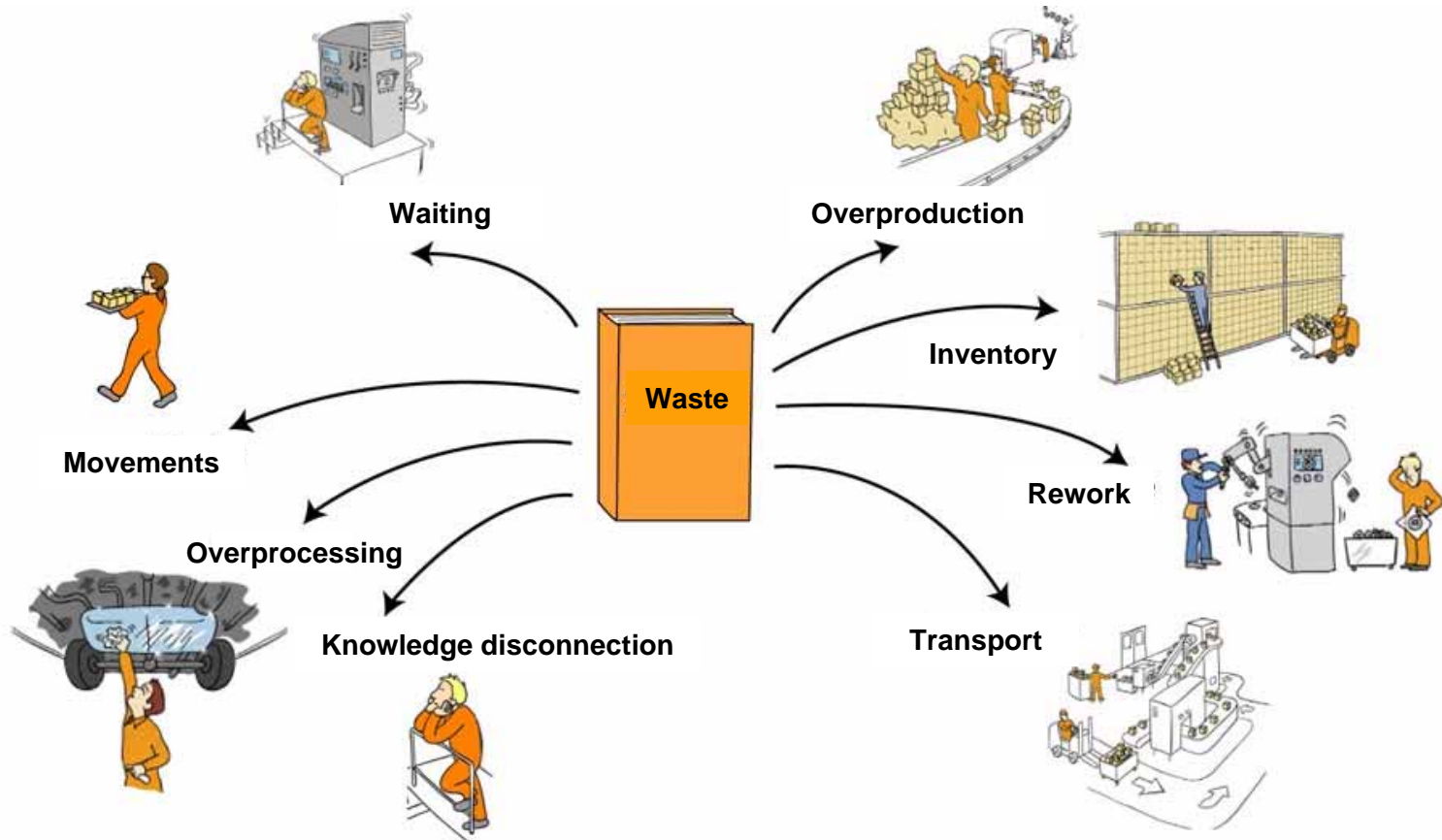


**Satisfied
customers**



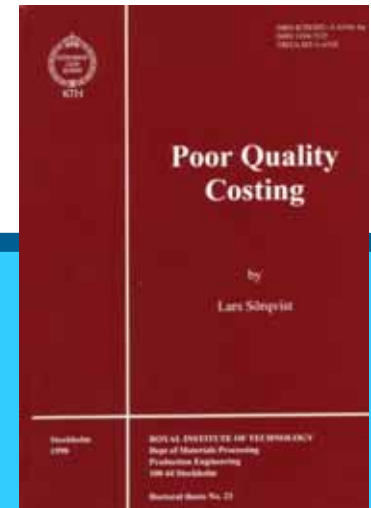
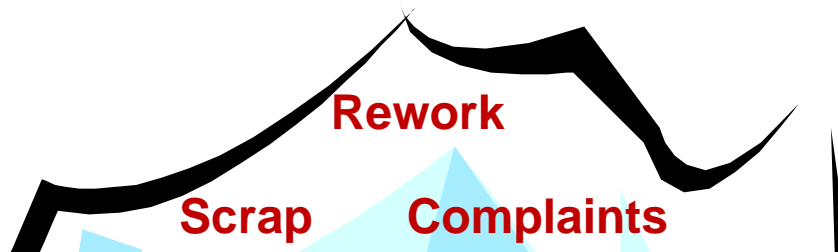
**Effective
processes**

Non-value adding activities waste a lot of resources



Source: Lean

Poor Quality Costs



Extra work

Failure analysis

Capital cost

Inspection and testing

Down time

Inefficiencies

Delays

Re-design

Lost time

Lack of essential technique

Lack of planning

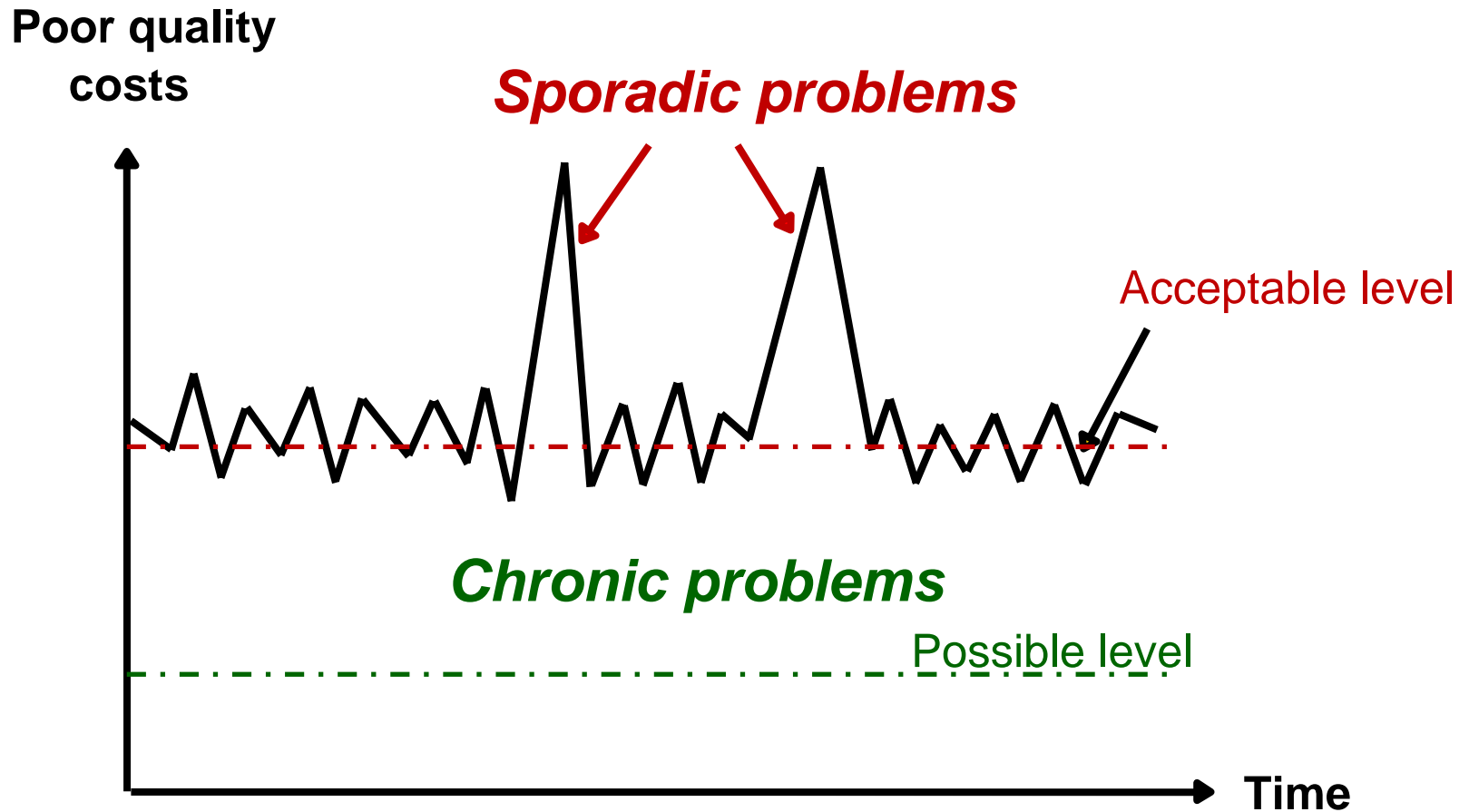
Customer dissatisfaction

Badwill

Lost sales

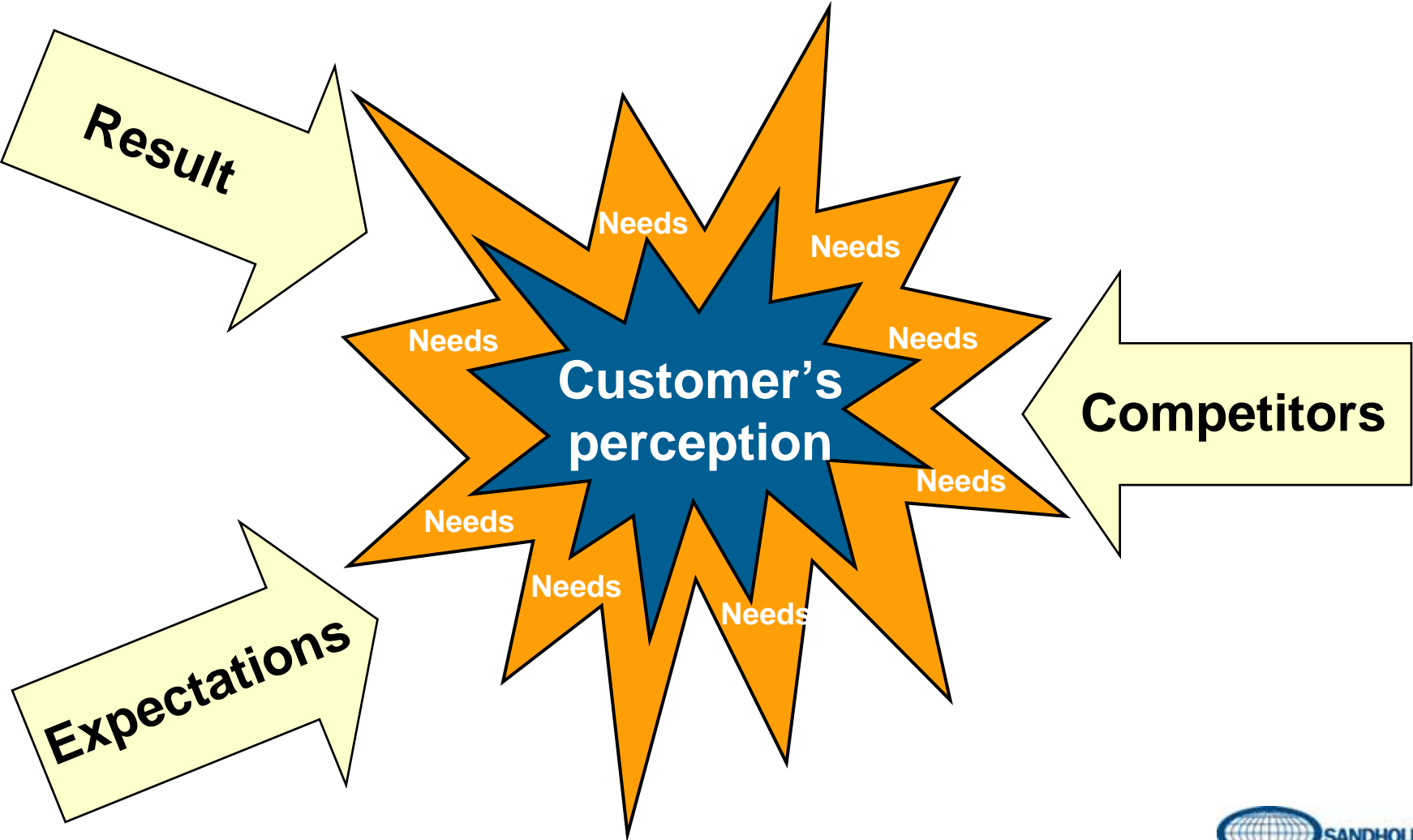


Sporadic and chronic problems



Source: JM Juran

Creating Higher Value for Humanity



How can Quality Management help?

- Quality leadership and management of improvements
- Customer focus and value management
- Focus on continues improvements and innovation
- Problem solving methodology and tools
- Lean and development of effective processes
- System thinking

Specialists – Coaching - Training

What have we done so far?

White Paper ASQ-IAQ Global Clean Water Initiative Version 1.0

Overview

Access to clean water is a major global issue. The United Nations (UN) considers such access a basic human right. However, in many parts of the world, especially in Africa, such access is extremely limited. Closely linked is the issue of basic sanitation, which is both a cause of poor water quality and a result of the lack of access. Climate change and global population growth only exacerbate the problem.

Global water issues are extremely complex. Too much of the information available on these topics is extremely superficial:

- “We have a huge problem. Organizations need your support.”
- “The next world war will be fought over water rights/access.”

There is much truth in these and other, similar common statements about global water issues. So much of the information available focuses purely on driving financial support for organizations dedicated to global clean water that it is extremely difficult to see the full complexity of the fundamental issues. More importantly, it is difficult to see and to evaluate fruitful paths towards solving these issues. Nonetheless, global clean water issues are forefront in international policy discussions, especially at the level of the UN.

It is clear that ASQ and IAQ have a real opportunity to participate meaningfully on developing solutions to these global issues. A common thread running through the thoughtful solutions currently being discussed are improved management of water resources, good support for research and development projects, and innovation. Successful solutions to global water issues require sound quality management techniques, the historic quality tools, and cutting edge ideas in innovation, all of which are fundamental to what we do as quality professionals. However, it may not be clear to the people deeply involved in these issues that we have an important contribution to make.

ASQ's and IAQ's role must be to support the efforts of other groups whose primary purpose is the solution of global water and sanitation issues. Identifying and nurturing appropriate partnerships/relationships are essential for success. Especially important are partners who truly are on the front lines in the areas most affected, especially in Africa. The Water Council in Milwaukee is a good start as we learn more about these issues. However, it also is very clear that are not as big a player on the front lines as ASQ and IAQ need to have a meaningful impact. More interesting partners include the World Water Council (www.worldwatercouncil.org), the Columbia Water Center (water.columbia.edu), and WaterAid (www.wateraid.org/us). We also

SAVE THE PLANET WATER

José Roberto Bernasconi

André Luiz de Medeiros Monteiro de Barros

1. FOREWORD

Saving our planet's water is one of the goals of people who are aware of the impact of their actions. Saving it means safeguarding it, protecting it from threats to its purity, restoring its good quality, knowing how to use it, using it in other ways, and even replacing it. Perhaps this is the most important of goals, because without water mankind's existence is doomed.

While this is inexorably certain, it is also certain that mankind has other goals inherent to our wishes and how we pursue our life's objectives, be they questionable or not. So many and so different are these goals that one cannot reach them, put them in order, and prioritize them.

A quick scan of newspaper headlines today leaves us appalled, flabbergasted, in disbelief, afraid and suspicious of the future. Can we imagine that in the various and significant portions of the planet where peoples kill one another for oftentimes unfathomable ideas there is awareness of the need to preserve water when even our species is not preserved? It is hard to believe!

A more in-depth analysis of the news and information also tells us that many are the actions taken toward the development of peoples which, however, are carried out through the meandering paths of corruption and lack of technical expertise, and end up thwarting the announced goals. We then ask again: can we imagine that under such circumstances people are in fact consciously tackling the need to conserve water? The same answer is given as well: it is hard to believe!

However, thanks to the human race's diversity, we also find worldly pockets of excellence where human beings are able to coexist despite their differences by mutually respecting one another while remaining close to their own decency, ethics, culture, knowledge, and actions dedicated to their very existence, in harmony with the resources gracefully bestowed upon them by the planet.

The widespread dissemination of the good examples found in these pockets will sow promising initiatives in fertile land and, in the other hand, will be lost in the dust of the devastation caused by wars and harmful human actions. Those who are able to spot the promising initiatives are tasked with putting them in place, disseminating them, and if possible, improving them.



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QUALITY